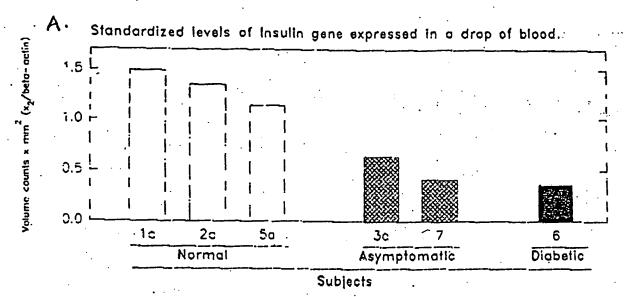


1 2 3

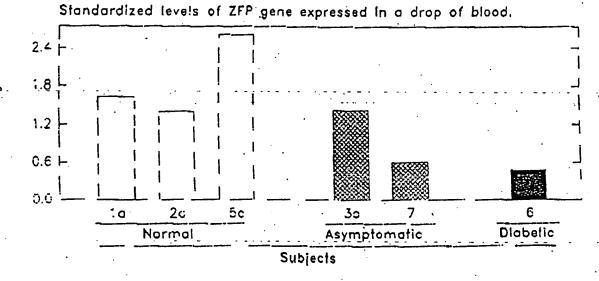
ZFP GADH

INS

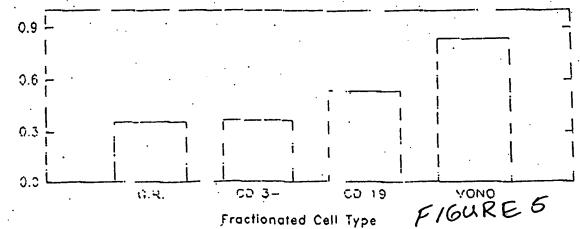




B.



Standardized levels of insulin gene expressed in each fractionated cell from whole blood.



Volume counts x ran (x2/buto actin)

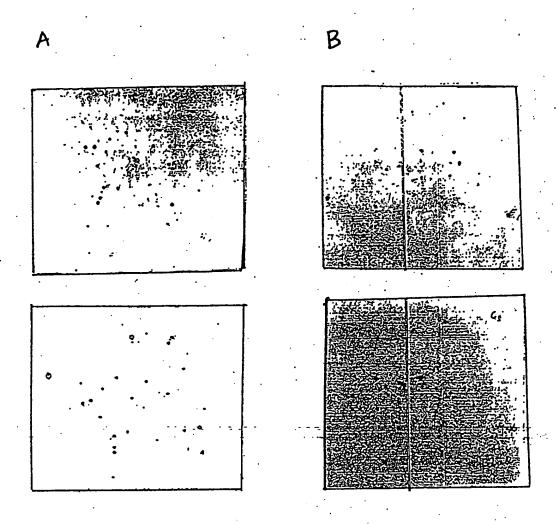


FIGURE 6

Total :13, 283 ESTs Known: 6,283

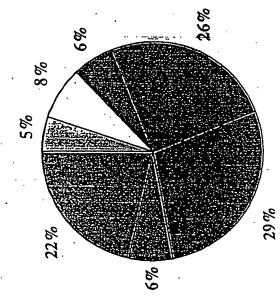
Mitochondrial: 405 Ribosome: 498

Cell Division

Repeat: 868

Mis. : 156 Novel: 2,718

## Human Blood



☐ Cell Signalling/Communication

Cell structure/Motility

Cell/organism defense

🖻 Gene/Protein expression

Metabolism

**■ Unclassified** 

27%

Human Fetal Heart

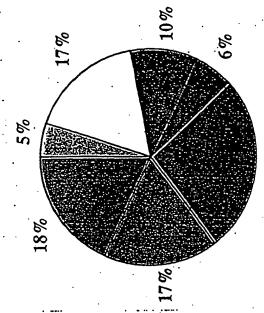
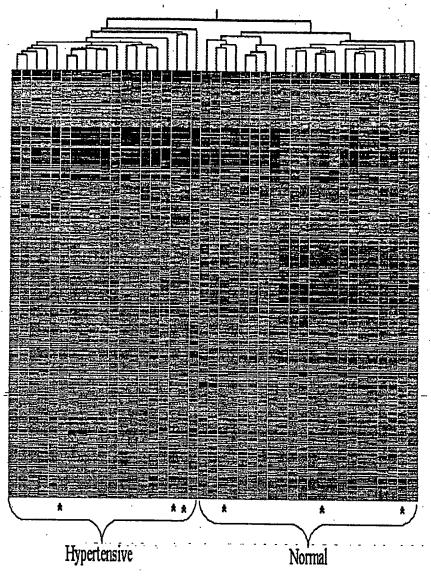


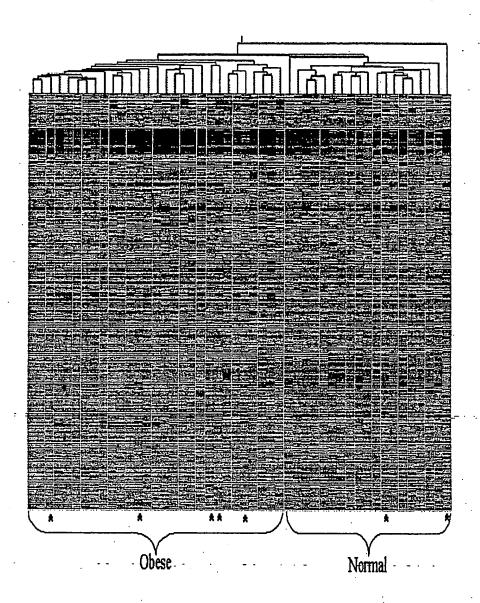
Figure 8
Hypertension



Hypertensive: 19

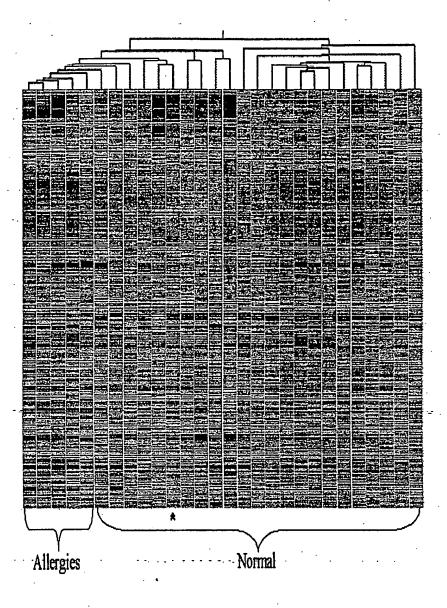
Normal: 22

Figure 9
Obesity



Obese: 25 Normal: 22

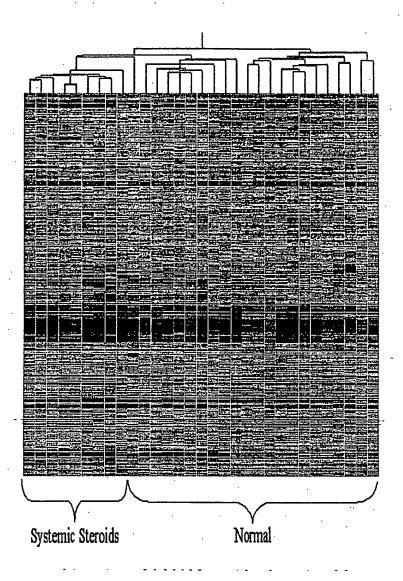
Figure 10 Allergies



Allergies: 6

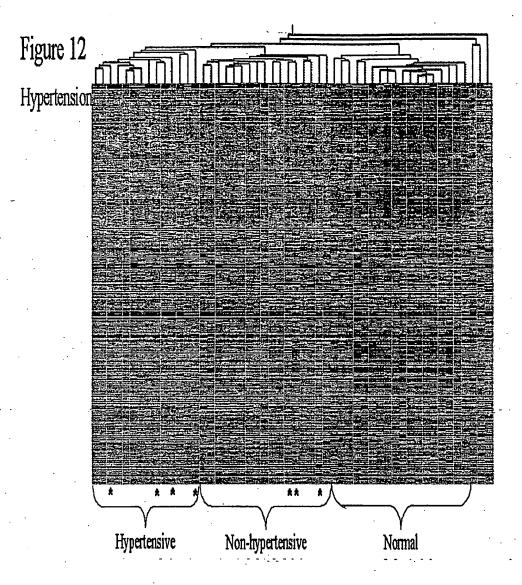
Normal: 22

Figure 11
Systemic
Steroids

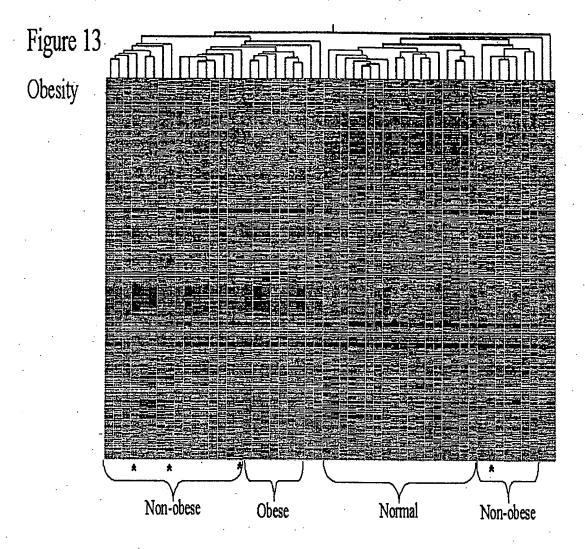


Systemic Steroids: 9

Normal: 22



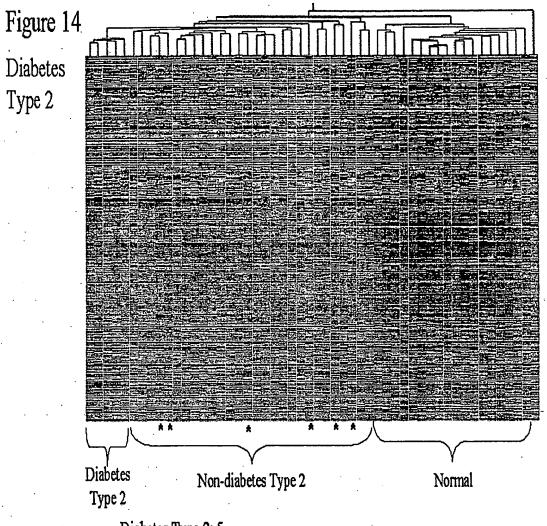
Hypertensive: 10
Non-hypertensive: 18
Normal: 24
Differentially Expressed Genes (p<0.05): 1,993



Obese: 8

Non-obese: 20

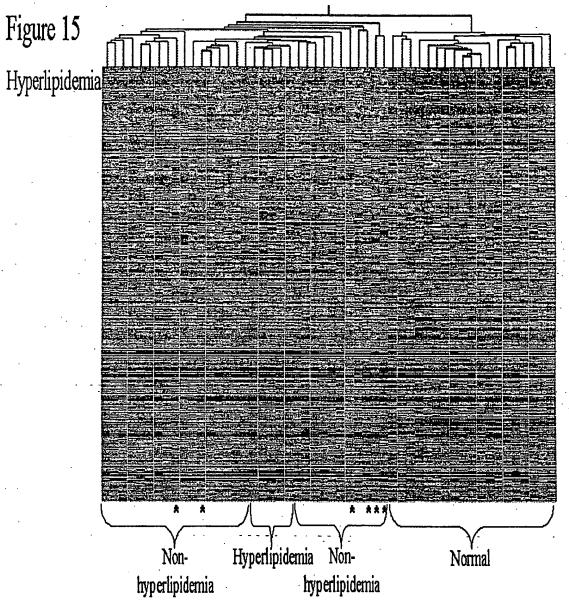
Normal: 24



Diabetes Type 2: 5

Non-diabetes Type 2: 23

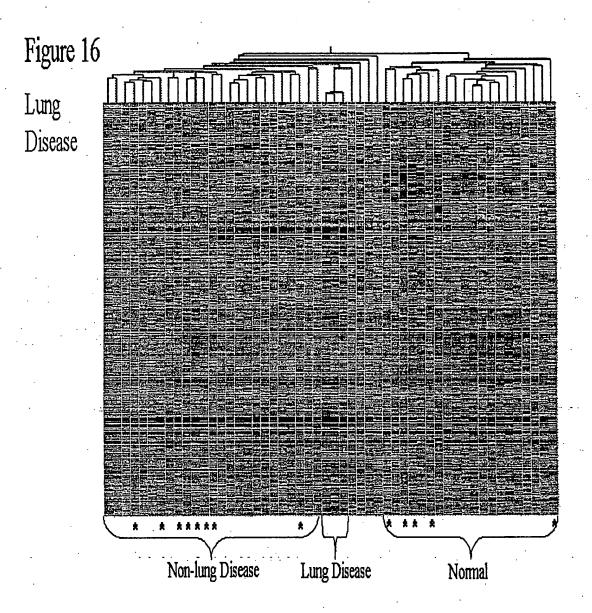
Normal: 24



Hyperlipidemia: 7

Non-hyperlipidemia: 21

Normal: 24

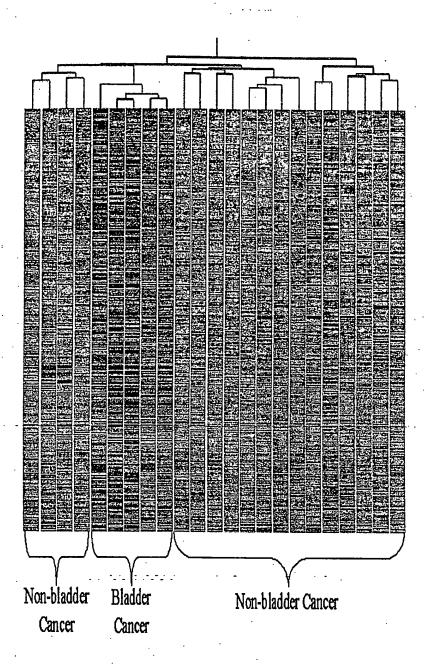


Lung Disease: 3

Non-lung Disease: 25

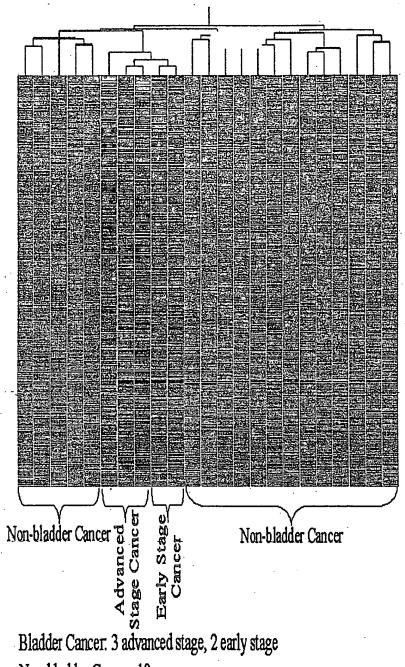
Normal: 24

Figure 17
Bladder
Cancer

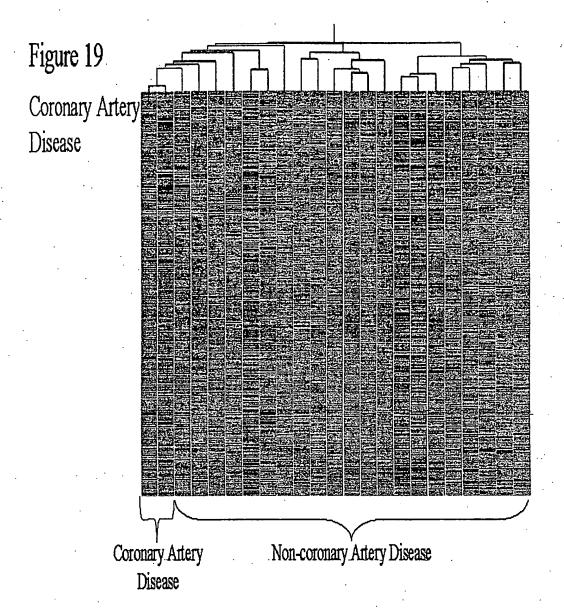


Bladder Cancer: 5 Non-bladder Cancer: 18 Differentially Expressed Genes (p<0.05): 4,228

Figure 18 Bladder Cancer



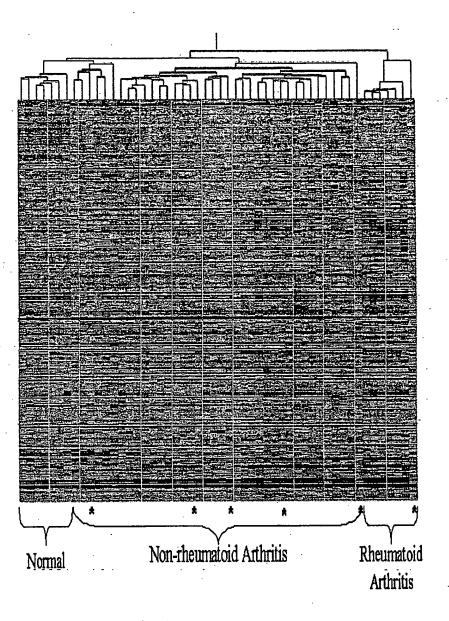
Non-bladder Cancer: 18



Coronary Artery Disease: 2

Non-coronary Artery Disease: 21

Figure 20
Rheumatoid
Arthritis

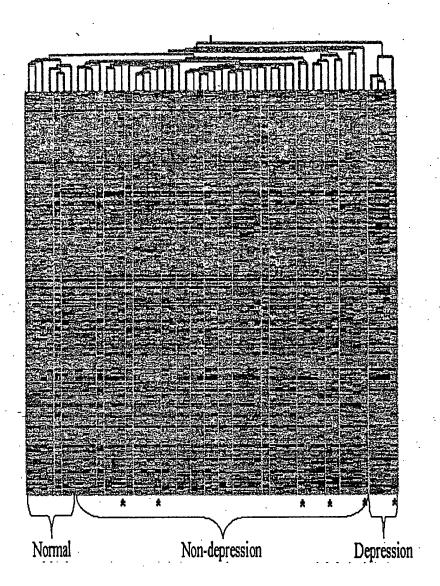


Rheumatoid Arthritis: 6

Non-rheumatoid Arthritis: 34

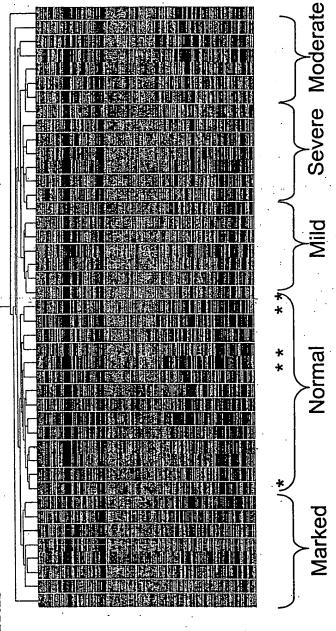
Normal: 12

Figure 21
Depression



Depression: 3
Non-depression: 37
Normal: 12
Differentially Expressed Genes (p<0.05): 941

Osteoarthritis Figure 22



Osteoarthritis: 9 mild, 8 moderate, 8 marked, 9 severe Normal: 9

RT-PCR of overexpressed genes in CAD peripheral blood cells identified using microarray experiments, Figure 23

including PBP, PF4 and F13A.

Marker Contr. 1 Contr. 2 Contr. 3 CAD1 CAD2 CAD3 CAD4

Berkoff Land Care Care Care Care Care Care Care Care	Connective Tissue Activating Peptide III		 de se			
		40.00	A COLUMN	(NEW)		Same and

Figure 24

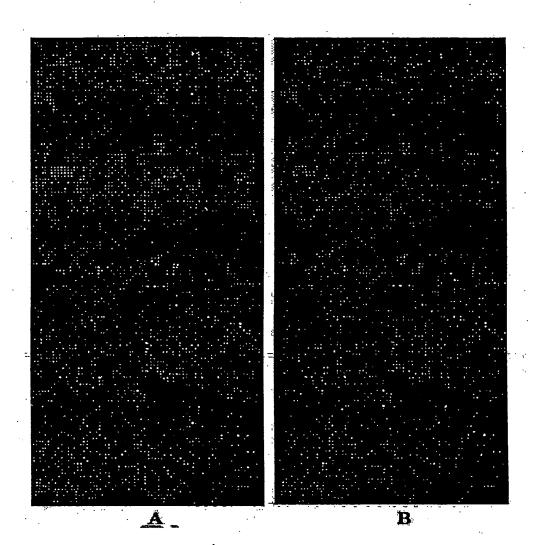
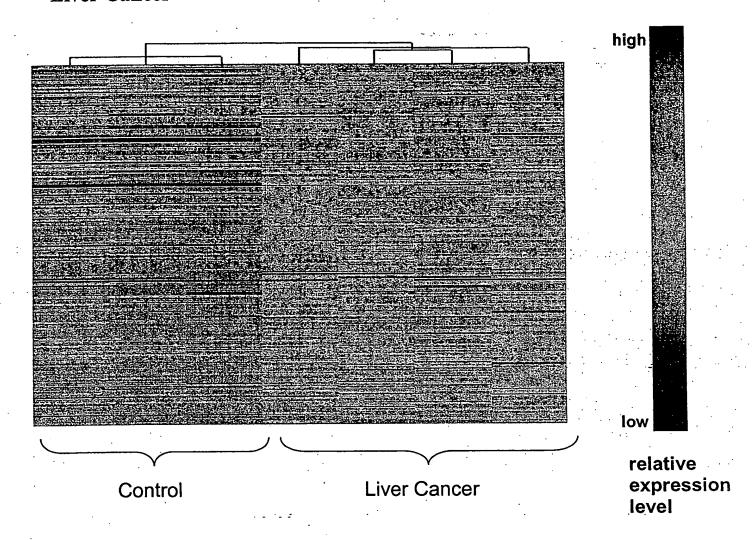
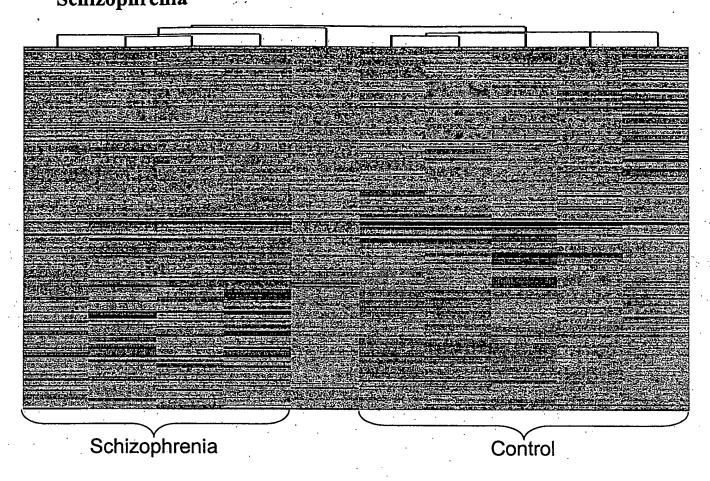


Figure 25
Liver Cancer



Control (red): n=3; Liver Cancer (orange): n=4

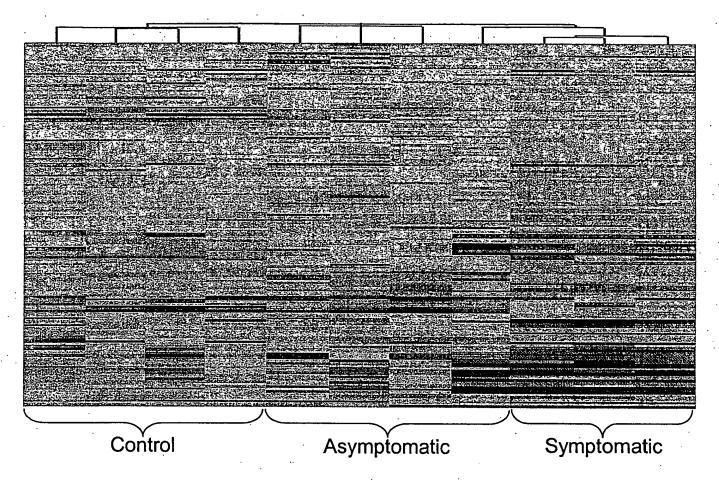
Figure 26
Schizophrenia



Control (red): n=6; Schizophrenia (orange): n=4

p<0.005 252 genes

Figure 27 Chagas Disease

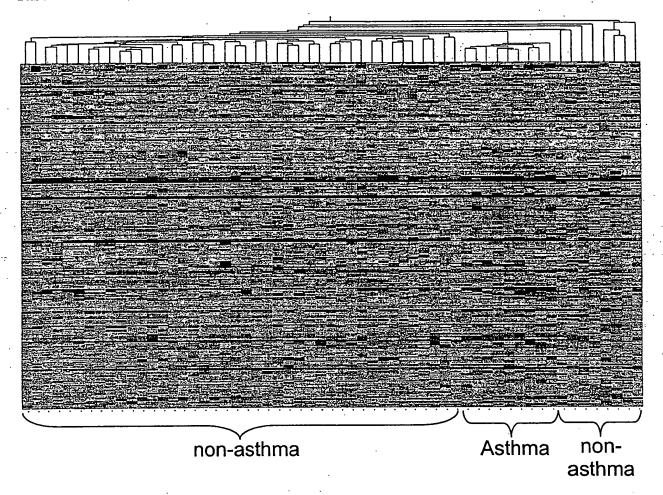


Control (orange): n=4; Chagas' asympt. (red): n=4; Chagas' sympt. (yellow): n=3

p<0.01 155 genes

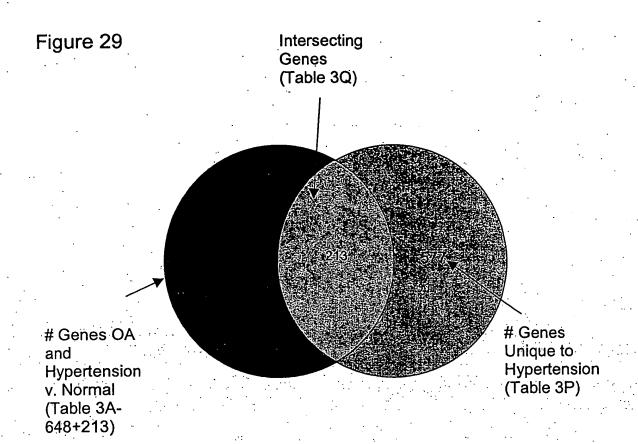
Figure 28

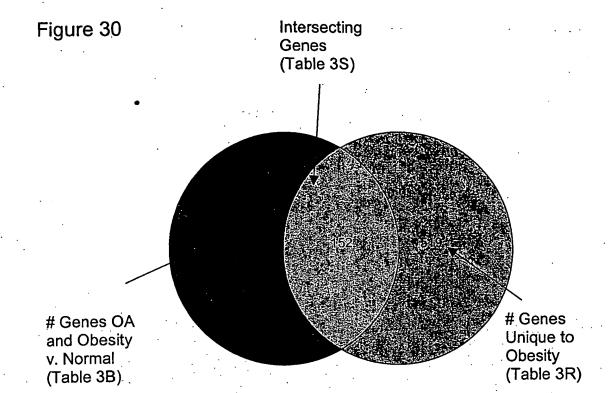
## Asthma

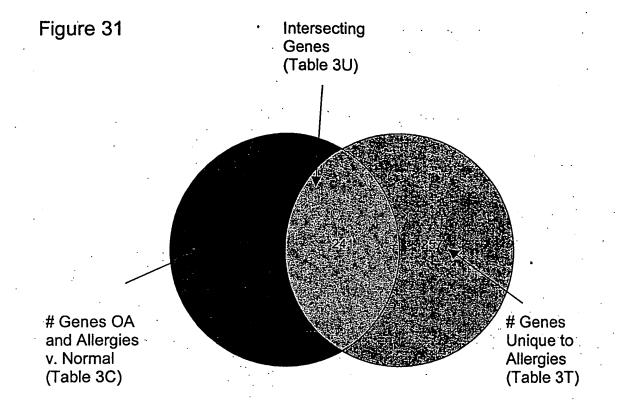


Asthma: n=9 Non-asthma: n=50

p<0.05 219 genes







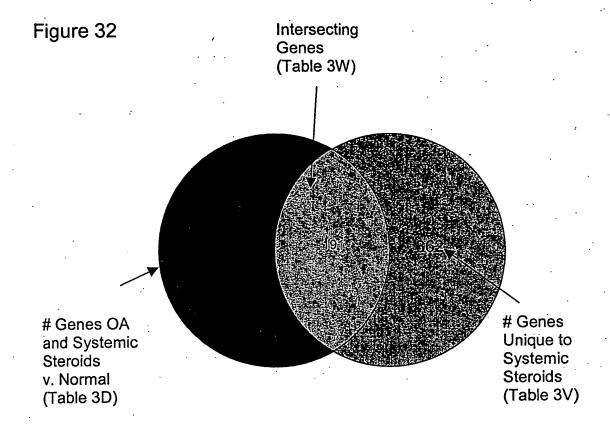
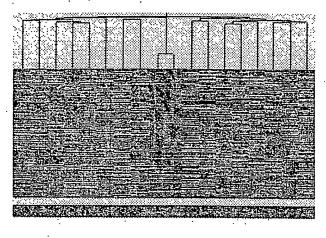


Figure 33

## Schizophrenia, Batch 2 vs. MDS

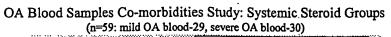


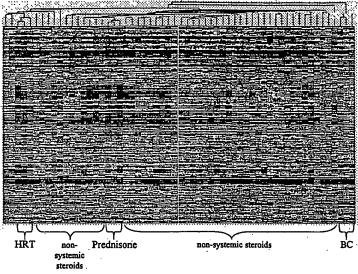
relative expression level

p<0.05 294 genes Schizophrenia (yellow): n=16; MDS (blue): n=2

MDS = Manic Depression Syndrome

Figure 34





Systemic Steroids (n=9): 3 prednisone, 3 birth control, 3 hormone replacement therapy Non-systemic steroids: 50
Differentially Expressed Genes (p<0.05): 396

HRT = hormone replacement therapy; BC = birth control